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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference PCT-144 | FOR FURTHER ACTION | HER ACTION See Form PCT/IPEA/4 | | | |
|---|--|---|-----------------------|--|--|
| International application No. | International filing date (day | month/year) Priority date (| day/month/year) | | |
| РСТ/ЈР2003/010882 | 27 August 2003 (27. |)8.2003) 29 Augu | st 2002 (29.08.2002) | | |
| International Patent Classification (IPC) or national classification and IPC A61N 1/40 | | | | | |
| Applicant NIPPON SHEET GLASS COMPANY LIMITED | | | | | |
| This report is the international prelin Authority under Article 35 and trans | ninary examination report, est mitted to the applicant accord | blished by this International Prog to Article 36. | eliminary Examining | | |
| 2. This REPORT consists of a total of | 5 sheets, include | ng this cover sheet. | | | |
| 3. This report is also accompanied by A | | | | | |
| a. (sent to the applicant and | to the International Bureau) e | total of sheets, as fo | ollows: | | |
| sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). | | | | | |
| 4. This report contains indications relat | | | | | |
| Box No. I Basis of the rep | port | | | | |
| Box No. II Priority | | | | | |
| | | novelty, inventive step and indu | ustrial applicability | | |
| Box No. IV Lack of unity of | | | | | |
| Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | |
| Box No. VI Certain documents cited | | | | | |
| Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application | | | | | |
| Box No. VIII Certain observations on the international application | | | | | |
| Date of submission of the demand | | Date of completion of this report | | | |
| 02 February 2004 (02.02.2004) | | 28 September 2004 (28.09.2004) | | | |
| Name and mailing address of the IPEA/JP | | Authorized officer | | | |
| Facsimile No. | | Telephone No. | | | |

Translation



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/010882

| BOX 140 | • 1 | Basis of the report | | | | |
|---------------|------------|---|--|--|--|--|
| 1. With other | regard | to the language, this report is based on the international application in the language in which it was filed, unless adicated under this item. | | | | |
| | This which | This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of: | | | | |
| | | international search (under Rules 12.3 and 23.1(b)) | | | | |
| | | publication of the international application (under Rule 12.4) | | | | |
| | | international preliminary examination (under Rules 55.2 and/or 55.3) | | | | |
| furni | shed to | d to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report): | | | | |
| \boxtimes | | nternational application as originally filed/furnished | | | | |
| | | escription: | | | | |
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| | the d | rawings: | | | | |
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| | pages | | | | | |
| | pages | received by this Authority on | | | | |
| | a seq | uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. | | | | |
| 3. | The a | mendments have resulted in the cancellation of: | | | | |
| | | the description, pages | | | | |
| | | the claims, Nos. | | | | |
| | 同 | the drawings, sheets/figs | | | | |
| | Ħ | the sequence listing (specify): | | | | |
| | Ħ | any table(s) related to sequence listing (specify): | | | | |
| | لسسا | and the sequence insting (specify). | | | | |
| 4. | made | report has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 170.2(c)). the description, pages | | | | |
| | | | | | | |
| * If iter | m 4 ap | plies, some or all of those sheets may be marked "superseded." | | | | |



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International application No. PCT/JP 03/10882

| ٧. | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; |
|----|--|
| | citations and explanations supporting such statement |

| <u> </u> | citations and explanations supporting such statement | | | | | |
|----------|--|--------|------|-------|--|--|
| ι. | Statement | | | | | |
| | Novelty (N) | Claims | 1-19 | YES | | |
| | | Claims | | NO | | |
| | Inventive step (IS) | Claims | | YES | | |
| | | Claims | 1-19 | NO NO | | |
| | Industrial applicability (IA) | Claims | 1-19 | YES | | |
| | | Claims | | NO | | |

2. Citations and explanations

Document 1: JP 6-245993 A (Tomoya Sato, 3 others), 6
September 1994

Document 2: JP 8-119635 A (Toda Kogyo Kabushiki Kaisha),

14 May 1996

Document 3: WO 99/33597 A1 (Nichia Chemical Industries,

Ltd.), 8 July 1999

Document 4: JP 11-191509 A (JSR Corp.), 13 July 1999

Claims 1 to 9, 13, 14

Document 1 discloses a magnetic composition used in hyperthermia.

Document 2 discloses the manufacture of granular magnetite fine particles using a granular goethite fine particle powder containing a silicon compound for precursor particles.

A person skilled in the art could easily conceive of using the granular magnetite fine particles of the invention disclosed in document 2 as the magnetic composition of the invention disclosed in document 1.

Document 3 discloses the manufacture of a magnetic alloy powder having a single magnetic domain particle size and reduced cracking.

A person skilled in the art could easily conceive of adapting the invention disclosed in document 1 by applying



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the invention disclosed in document 3, and manufacturing the magnetic composition as a magnetic alloy powder having a single magnetic domain particle size and reduced

Accordingly, a person skilled in the art could easily conceive of the invention described in claims 1 to 9, 13, and 14 in the light of the inventions disclosed in documents 1 to 3.

Claims 10 to 12

cracking.

Document 4 discloses a feature wherein a metal oxide coating is formed on magnetic particles used as a drug delivery carrier.

A person skilled in the art could easily conceive of adapting the invention disclosed in document 1 by applying the invention disclosed in document 4, and forming a metal oxide coating on the magnetic composition.

Accordingly, a person skilled in the art could easily conceive of the invention described in claims 10 to 12 in the light of the inventions disclosed in documents 1 to 4.

Claims 15 to 19

Document 1 discloses the use of a magnetic composition in hyperthermia.

Document 2 discloses a method for manufacturing granular magnetite fine particles by using a suspension containing a granular goethite fine particle powder and colloidal ferrous hydroxide and forming magnetite from the granular goethite fine particle powder.

Document 3 discloses a feature wherein heating and a reduction process are performed in order to obtain a magnetic alloy powder having a single magnetic domain particle size.



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A person skilled in the art could easily conceive of adapting the process whereby magnetite is formed from the granular fine particle powder in the invention disclosed in document 2 by applying the feature wherein heating and a reduction process are performed in the invention disclosed in document 3.

A feature wherein a heating process is carried out by inserting nuclear fine particles in a cylindrical drum and rotating the drum during the process, as in the invention described in claim 19, is merely a feature fittingly performed by a person skilled in the art.

Accordingly, a person skilled in the art could easily conceive of the invention described in claims 15 to 19 in the light of the inventions disclosed in documents 1 to 3.